

STEREO INTEGRATED AMPLIFIER

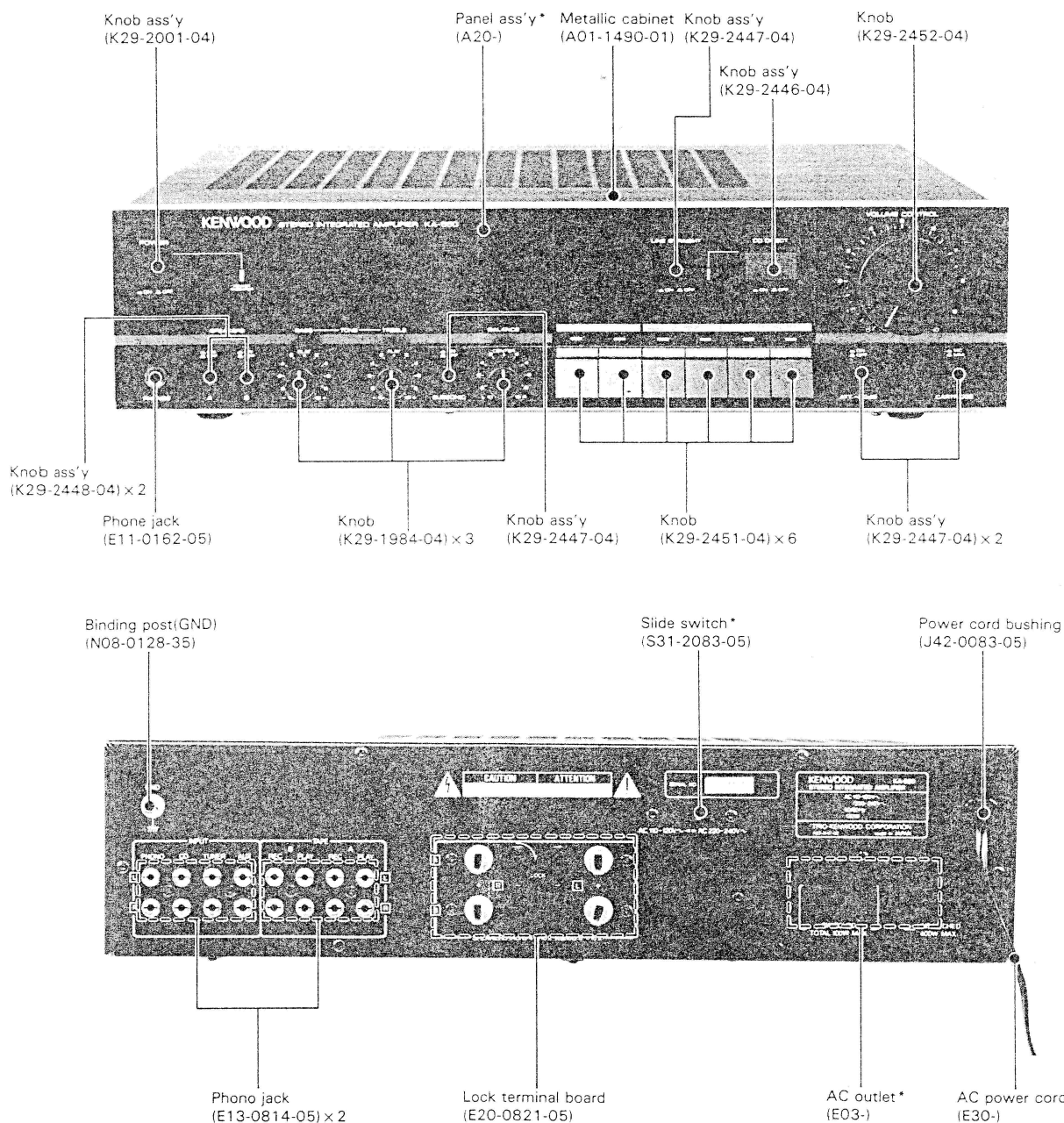
KA-550

SERVICE MANUAL

KENWOOD

TRIO-KENWOOD CORPORATION

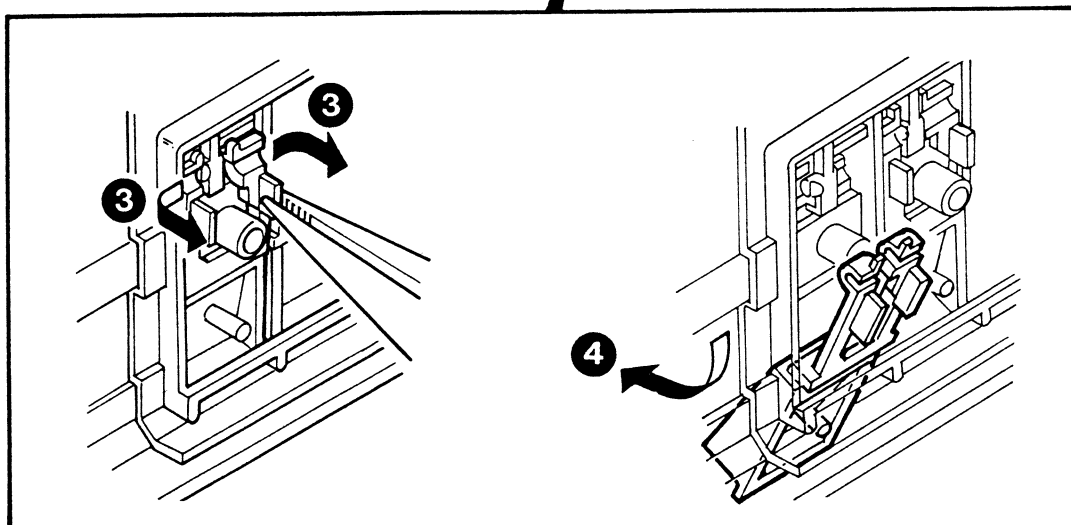
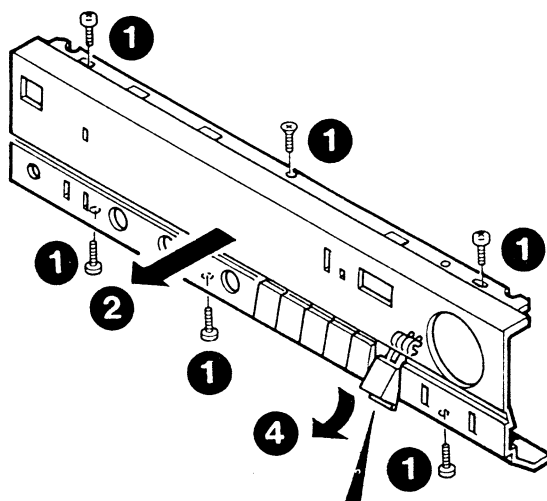
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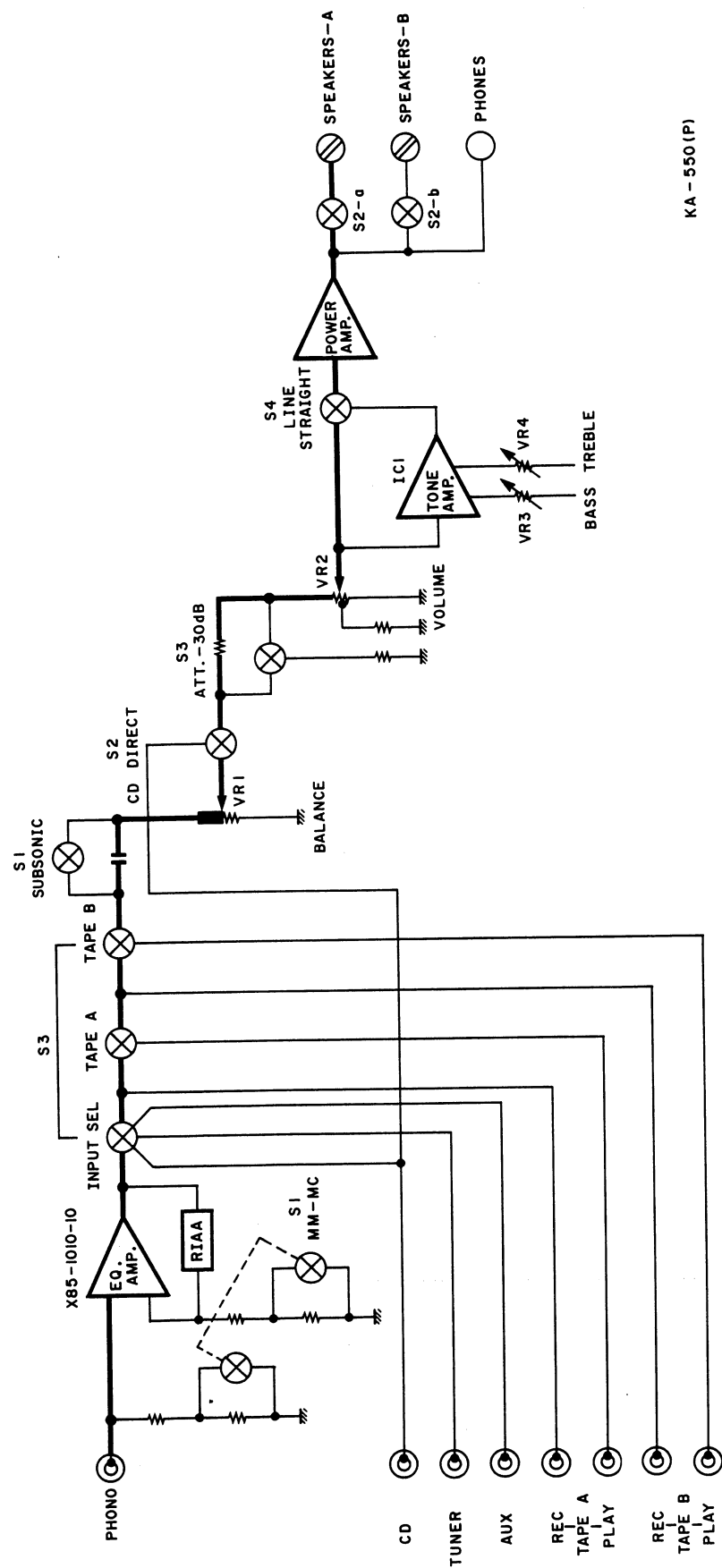
*Refer to Parts List on page 6.

DISASSEMBLY FOR REPAIR

1. Remove the six screws mounted on the upper and lower section of the front panel.
2. Remove the front panel from the main body.
3. Hold the lug protruded from the back of the front panel with pliers, and remove the knob in the direction of the arrow.
4. Remove the knobs in the direction of an arrow.



BLOCK & LEVEL DIAGRAM



KA - 550 (P)

CIRCUIT DESCRIPTION

Component function
Audio unit (X09-2301-00)

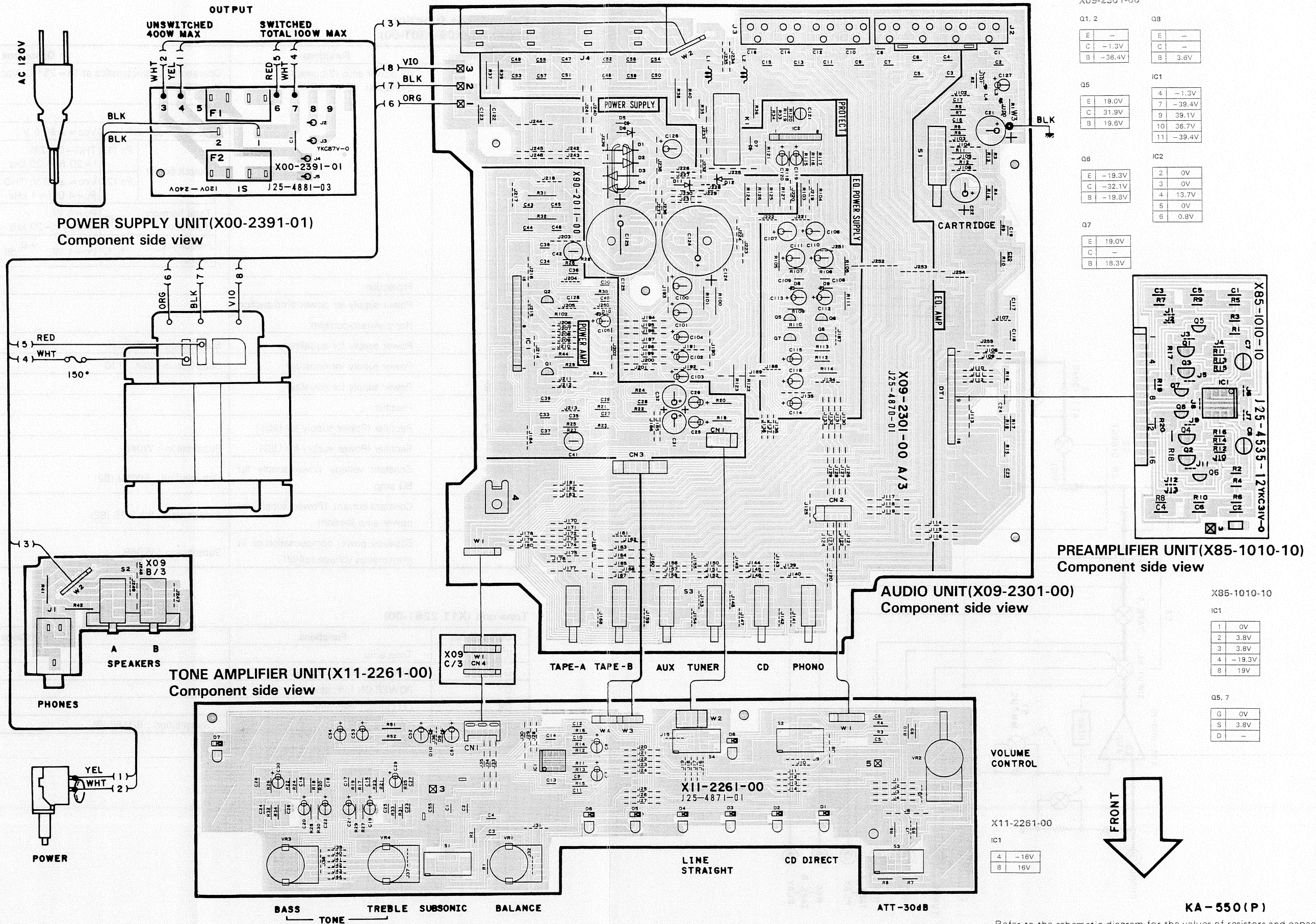
Components	Functions	Operations						
IC1	AF power amp (2-current, 2-channel. 40 W, Min)	Operational characteristics at Ta = 25° C, Vcc = ± 32 V, RL = 8 ohms, VG = 40 dB						
				min	typ	max		
		No-signal current	Icco	Vcc = ± 38.5 V		35	70	120(mA)
		Output power	Po (1)	THD = 0.02% f = 20 Hz ~ 20 kHz		40	—	— (W)
			Po (2)	Vcc = ± 29 V, THD = 0.08% RL = 4 Ω, f = 1 kHz		45	—	— (W)
		Total harmoni distortion	THD	Po = 1 W f = 20 Hz ~ 20 kHz		—	—	0.02(%)
Frequency response	fL, fH	Po = 1 W, +0 -3 dB		10 ~ 100 K(Hz)				
IC2	Protection							
Q1, 2	Power supply for power amp section (for constant-current)							
Q5	Power supply for equalizer	Substitution : 2SC 2590						
Q6	Power supply for equalizer	Substitution : 2SA 1110						
Q7, 8	Power supply for equalizer							
D1-4	Rectifier							
D5, 7	Rectifier (Power supply for relay)							
D6	Rectifier (Power supply for LED)	Substitution : W06B						
D8, 9	Constant voltage power-supply for EQ amp	Sub stitution : RD20J (B2)						
D10	Constant-current (Power supply for power amp section)	Substitution : RD 2.7E (B2)						
D11, 12	Equalizer power compensation on in stantaneous voltage roll-off	Substitution : W06B						

Tone unit (X11-2261-00)

Components	Functions	Operations
IC1	Tone amp	
D1-6	INPUT SELECTOR indicators	
D7	POWER ON indicator	
D8	CD DIRECT indicator	
D9, 10	Tone power	Substitution : RD16E (B)

KA-550 KA-550

PC BOARD



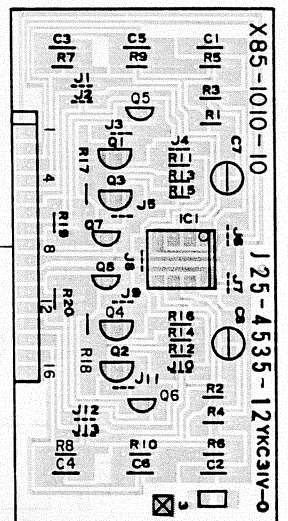
X09-2301-00

Q1, 2	Q8
E -	E -
C -1.3V	C -
B -36.4V	B 3.6V

Q5	IC1
E 19.0V	4 -1.3V
C 31.9V	7 -39.4V
B 19.6V	9 39.1V
	10 36.7V
	11 -39.4V

Q6	IC2
E -19.3V	2 0V
C -32.1V	3 0V
B -19.8V	4 13.7V
	5 0V
	6 0.8V

Q7	
E 19.0V	
C -	
B 18.3V	



PREAMPLIFIER UNIT(X85-1010-10)
Component side view

X85-1010-10

IC1	
1 0V	
2 3.8V	
3 3.8V	
4 -19.3V	
8 19V	

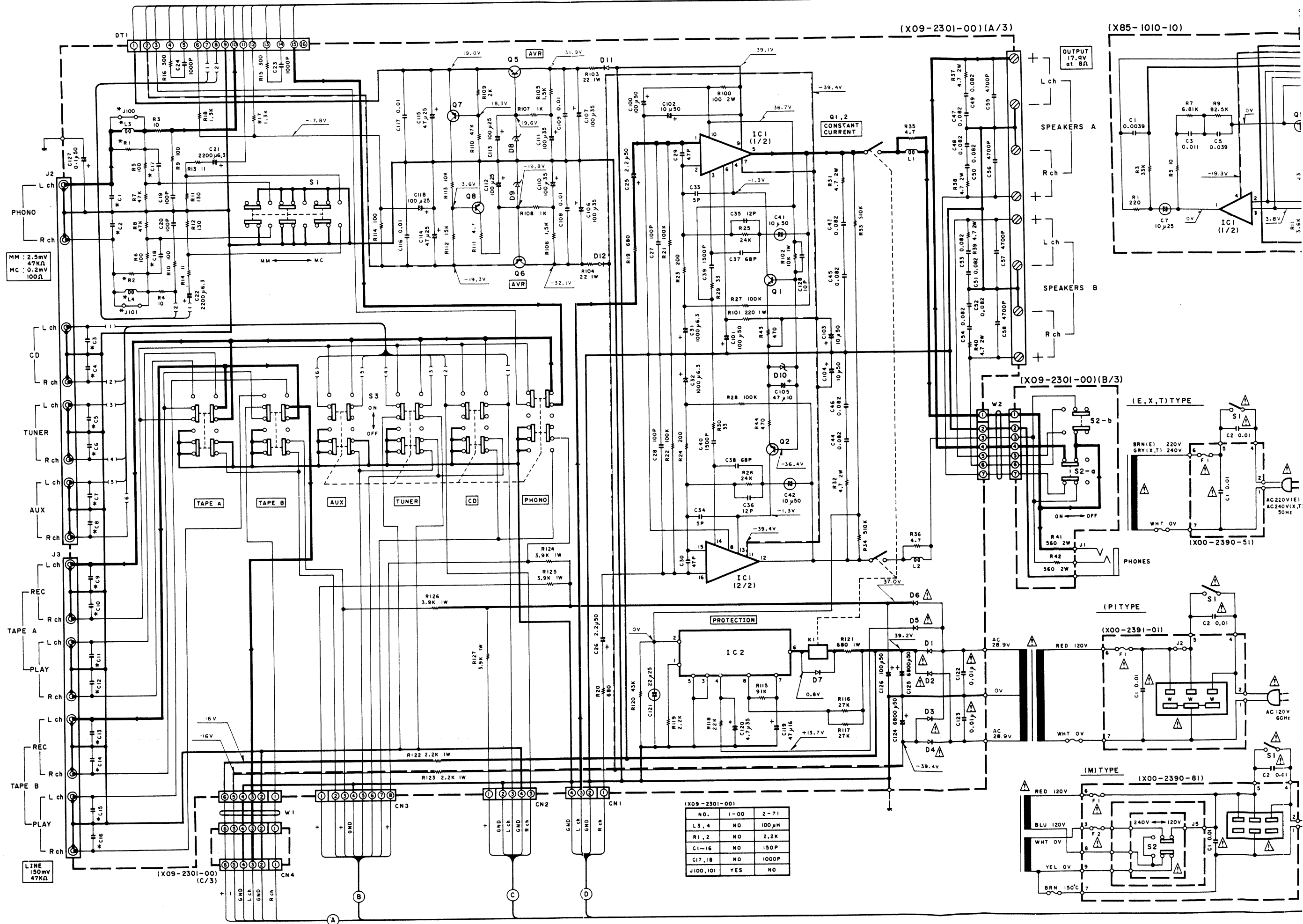
Q5, 7

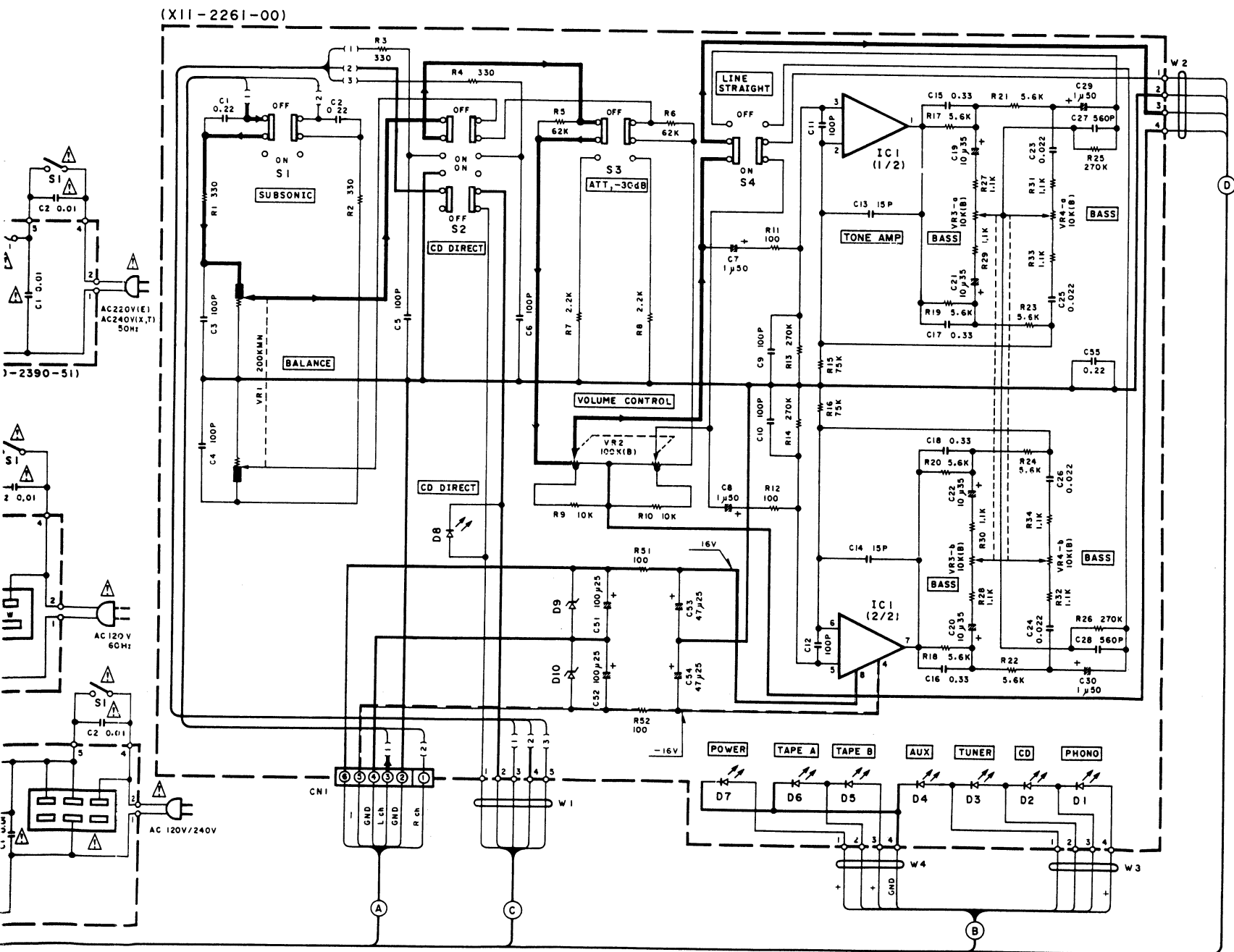
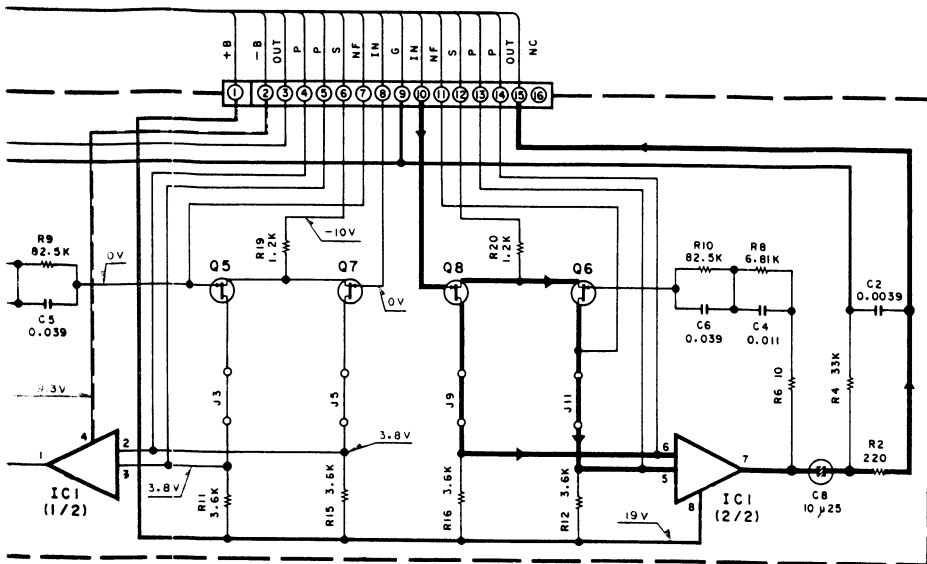
G 0V	
S 3.8V	
D -	

X11-2261-00

IC1	
4 -16V	
8 16V	

Refer to the schematic diagram for the values of resistors and capacitors.





SPECIFICATIONS

POWER OUTPUT

40 watts per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion.

Maximum continuous Power Output (DIN) 1 kHz at 4 ohms 55 W
 Maximum continuous Power Output (DIN) 1 kHz at 8 ohms 44 W
 Maximum continuous Power Output (IEC/NF) form 63 Hz to 12,500 Hz, 0.7%
 Total Harmonic Distortion at 8 ohms 43 W + 43 W

Total Harmonic Distortion
 (20 Hz-20,000 Hz, 8 ohms) 0.03% at 40 W
 (1 kHz, 8 ohms) 0.003% at 40 W
 Inter Modulation Distortion 0.003% at rated power into 8 ohms
 Frequency Response 1 Hz to 100 kHz \pm 0 dB, -1 dB (IHF-66)
 Phono Frequency Response RIAA Standardcurve \pm 0.3 dB (20 Hz to 20 kHz)
 Damping Factor (1 kHz input 8 ohms) 50

Signal to Noise Ratio (IHF-A) (CR-301A)
 PHONO (MM) 86 dB
 PHONO (MC) 81 dB
 TUNER/CD/AUX/TAPE 75 dB
 TUNER/CD/AUX/TAPE 105 dB
 TUNER/CD/AUX/TAPE 82 dB

Input Sensitivity/Impedance
 PHONO (MM) 2.5 mV/47 k ohms
 PHONO (MC) 0.2 mV/100 ohms
 TUNER/CD/AUX/TAPE 150 mV/47 k ohms

Phono Maximum Input Level
 PHONO (MM) 200 mV, 0.03% T.H.D. at 1 kHz
 PHONO (MC) 15 mV, 0.03% T.H.D. at 1 kHz

Output Level/Impedance
 TAPE REC 150 mV/220 ohms
 REC OUT 150 mV/220 ohms

Channels Separation (DIN) at 1,000 Hz
 PHONO (Terminated with 2.2 k ohms) 50 dB
 AUX (Terminated with 47 k ohms + 250 pF) 40 dB

Tone Control
 TREBLE \pm 10 dB at 10 kHz
 BASS \pm 10 dB at 100 Hz

Subsonic Filter 6 dB/oct at 18 Hz
 Transient Response Risettime 1.8 μ s (VR MAX.)

General

Power Requirements 120 V, 60 Hz...Canada Models
 220 V, 50 Hz...European Models
 240 V, 50 Hz...England Models


Power Consumption 130 watts at rated output power into 8 ohms watts at no signal

A.C. Outlet Switched x 2 (100 W), Unswitched x 1 (400 W)

Dimensions W 420 mm (16-9/16")
 H 113 mm (4-7/16")
 D 311 mm (12-1/4")

Weight (Net) 6.3 kg (13.86 lb)
 (Gross) 7.0 kg (15.4 lb)

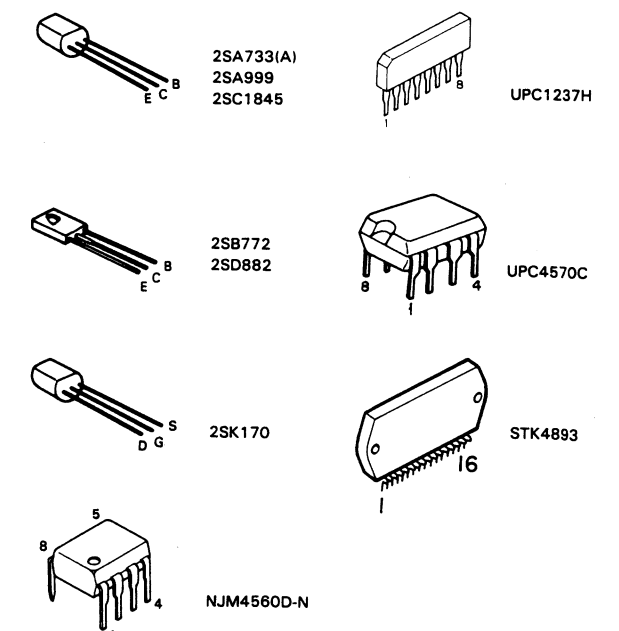
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
 Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.
 Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

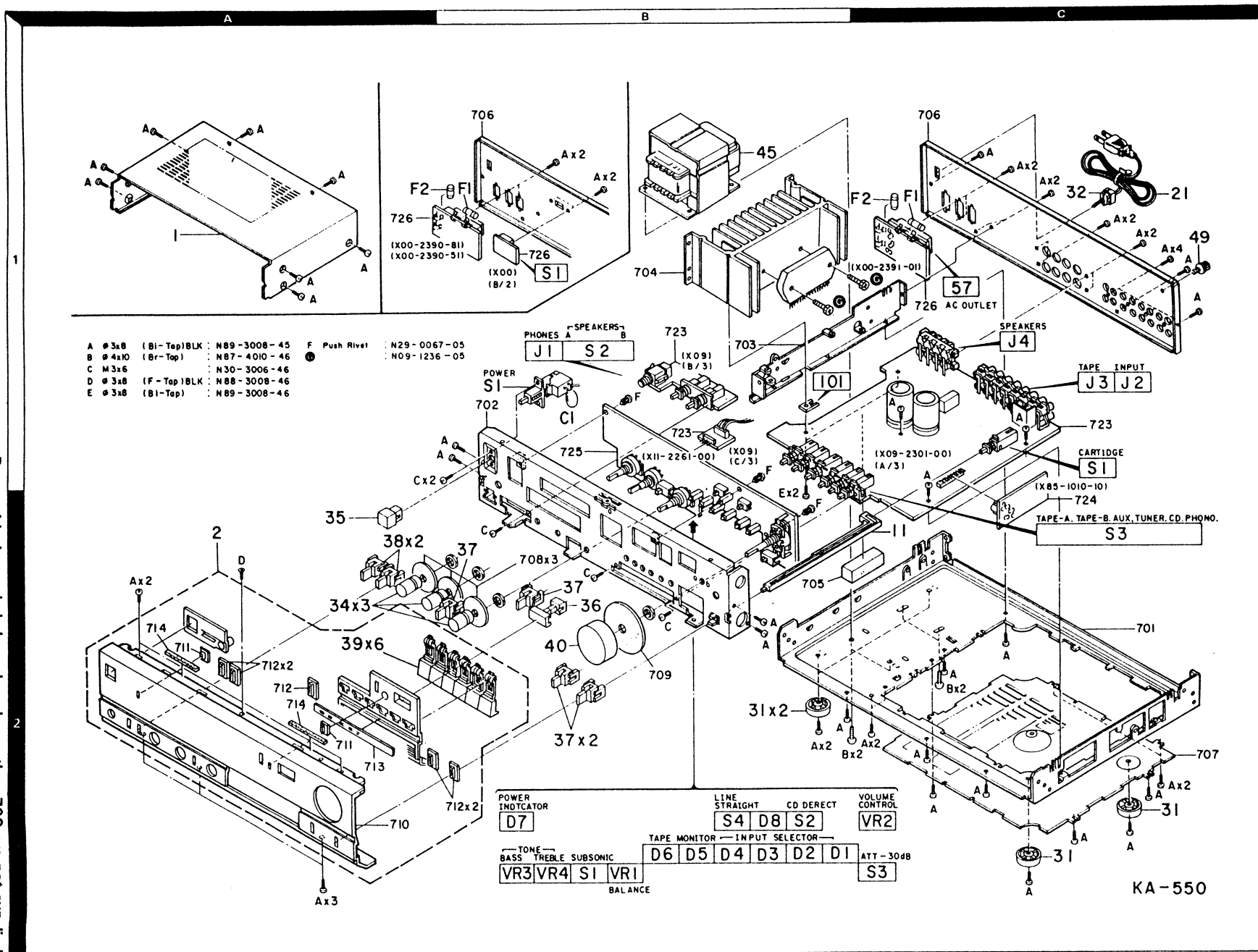
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanden die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.



KA-550
KENWOOD

Parts with the exploded numbers larger than 700 are not supplied.



KA-550

PARTS LIST

✱ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KA-550						
1	1A	*	A01-1490-01	METALLIC CABINET	T	EPMX
2	2A	*	A20-4896-03	PANEL ASSY		
2	2A	*	A20-4910-03	PANEL ASSY	X P E T T	
-			B46-0096-13	WARRANTY CARD		
-			B46-0121-03	WARRANTY CARD		
-			B46-0122-13	WARRANTY CARD		
-			B46-0123-03	WARRANTY CARD		
-		*	B50-6213-00	INSTRUCTION MANUAL (ENGLISH)	EPMX E M EPMX E	
-		*	B50-6214-00	INSTRUCTION MANUAL (FRENCH)		
-		*	B50-6215-00	INSTRUCTION MANUAL (D,G,I)		
-		*	B50-6216-00	INSTRUCTION MANUAL (SPANISH)		
-		*	B50-6217-00	INSTRUCTION MANUAL (ENGLISH)		
-			B58-0245-33	CAUTION CARD (FTZ)	M EPXT	
△ C2	1B		C91-0023-05	CERAMIC 0.01UF AC250V		
△ C2	1B		C91-0647-05	CERAMIC 0.01UF P	E M P X T	
11	2C		D21-1104-03	EXTENSION SHAFT (MM/MC)		
△ 21	1C		E30-0459-05	AC POWER CORD	EXT P M	
△ 21	1C		E30-0812-05	AC POWER CORD		
△ 21	1C		E30-0974-05	AC POWER CORD		
△ 21	1C		E30-1341-05	AC POWER CORD		
△ 21	1C		E30-1416-05	AC POWER CORD		
△ F1	1C		F05-1623-05	FUSE (SEMKO) (250V T1.6A)	EPMX T	
△ F1	1C		F06-3023-05	FUSE (UL) (250V 3A)		
△ F1 2	1C		F05-1521-05	FUSE (250V 1.5A)		
-		*	H01-7188-04	ITEM CARTON CASE		
-		*	H01-7189-04	ITEM CARTON CASE		
-		*	H10-1898-02	POLYSTYRENE FOAMED FIXTURE	P E M XT	
-		*	H10-1899-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0225-04	PROTECTION BAG (850X450)		
-			H25-0232-04	PROTECTION BAG (235X350)		
31	2B, 2C		J02-0129-05	FOOT		
△ 32	1C		J42-0083-05	POWER CORD BUSHING	KNOB KNOB ASSY (POWER) KNOB ASSY (CD DIRECT) KNOB ASSY (SUB, ATT, CART, LINE) KNOB ASSY (SPEAKER)	
-			J61-0307-05	WIRE BAND		
34	2A		K29-1984-04	KNOB		
35	2A		K29-2001-04	KNOB ASSY (POWER)		
36	2B	*	K29-2446-04	KNOB ASSY (CD DIRECT)		
37	2B	*	K29-2447-04	KNOB ASSY (SUB, ATT, CART, LINE)	KNOB (MONITOR, INPUT SELECTOR) KNOB (VOLUME)	
38	2A	*	K29-2448-04	KNOB ASSY (SPEAKER)		
39	2A		K29-2451-04	KNOB (MONITOR, INPUT SELECTOR)	P E M XT	
40	2B	*	K29-2452-04	KNOB (VOLUME)		
45	1B	*	L01-7181-05	POWER TRANSFORMER		
45	1B	*	L01-7182-05	POWER TRANSFORMER		
45	1B	*	L01-7185-05	POWER TRANSFORMER		
45	1B	*	L01-7187-05	POWER TRANSFORMER	BINDING POST (GND) PUSH RIVET (3.5X4.5)	
49	1C		N08-0128-35	BINDING POST (GND)		
F	1B, 2B		N29-0067-05	PUSH RIVET (3.5X4.5)		
△ S1	1B		S40-1073-05	PUSH SWITCH	P E M XT	

E: Scandinavia & Europe H: Audio Club K: USA P: Canada W: Europe

T: England U: PX (Far East, Hawaii) UE: AAFES (Europe)

X: Australia M: Other Areas

△ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
POWER SUPPLY(X00-2391-01)						
△ C1 △ C1			C91-0023-05 C91-0647-05	CERAMIC 0.01UF AC250V CERAMIC 0.01UF P	M EPXT	
△ 57 △ 57	1C 1C	* *	E03-0077-05 E03-0078-05	AC OUTLET AC OUTLET	M P	
- -			J13-0041-05 J13-0054-05	FUSE CLIP FUSE CLIP	PM EXT	
△ S1	1B		S31-2083-05	SLIDE SWITCH (POWER TYPE)	M	
AUDIO UNIT(X09-2301-00)						
C1 -16 C17 ,18 C19 ,20 C21 ,22 C23 ,24			CC45FSL1H151J CK45FB1H102K CC45FSL1H101J CE04KW0J222M CK45FB1H102K	CERAMIC 150PF J CERAMIC 1000PF K CERAMIC 100PF J ELECTR0 2200UF 6.3WV CERAMIC 1000PF K	E E	
C25 ,26 C27 ,28 C29 ,30 C31 ,32 C33 ,34			CE04KW1H2R2M CC45FSL1H101J CC45FSL1H470J CE04KW0J102M CC45FSL1H050C	ELECTR0 2.2UF 50WV CERAMIC 100PF J CERAMIC 47PF J ELECTR0 1000UF 6.3WV CERAMIC 5.0PF C		
C35 ,36 C37 ,38 C39 ,40 C41 ,42 C43 -54		*	CC45FSL1H120J CC45FSL1H680J CK45FB1H152K C90-1400-05 CF92FV1H823J	CERAMIC 12PF J CERAMIC 68PF J CERAMIC 1500PF K NP-ELEC 10UF 50WV MF 0.082UF J		
C55 -58 C100,101 C102-104 C105 C106,107			CK45FF1H472Z CE04KW1H101M CE04KW1H100M CE04KW1A470M CE04KW1V101M	CERAMIC 4700PF Z ELECTR0 100UF 50WV ELECTR0 10UF 50WV ELECTR0 47UF 10WV ELECTR0 100UF 35WV		
C108,109 C110,111 C112,113 C114,115 C116,117			CF92FV1H103J CE04KW1V101M CE04KW1E101M CE04KW1E470M CF92FV1H103J	MF 0.010UF J ELECTR0 100UF 35WV ELECTR0 100UF 25WV ELECTR0 47UF 25WV MF 0.010UF J		
C118 C119 C120 C121 C122,123			CE04KW1E101M CE04KW1C470M CE04KW1V4R7M C90-1353-05 CK45FE2H103P	ELECTR0 100UF 25WV ELECTR0 47UF 16WV ELECTR0 4.7UF 35WV NP-ELEC 10UF 25WV CERAMIC 0.010UF P		
C124,125 C126 C127 C128			C90-0366-05 CE04KW1H101M CE04KW1HOR1M CC45FSL1H100D	ELECTR0 6800UF 50WV ELECTR0 100UF 50WV ELECTR0 0.1UF 50WV CERAMIC 10PF D		
101 J1 J2 ,3 J4	1B 1B 1C 1C		E23-0125-05 E11-0162-05 E13-0814-05 E20-0821-05	TERMINAL PHONE JACK (3P) PHONE JACK (8P) LOCK TERMINAL BOARD(8P)		
L1 ,2 L3 ,4			L39-0085-05 L40-1011-47	PHASE-COMPENSATION COIL SMALL FIXED INDUCTOR(100UH,K.)	E	
G	1B,1C		N09-1236-05	TAPPING SCREW (3X16)		

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R31 ,32 R35 ,36 R37 -40 R41 ,42 R43 ,44			RS14DB3D4R7JTE RD14AB2E4R7JTS RS14DB3D4R7JTE RS14KB3D561JTE RD14AB2E471JTS	FL-PR00F RS 4.7 J 2W FL-PR00F RD 4.7 J 1/4W FL-PR00F RS 4.7 J 2W FL-PR00F RS 560 J 2W FL-PR00F RD 470 J 1/4W		
R100 R101 R102 R103,104 R105,106		*	RS14DB3D101JTE RS14DB3A221JTE RS14DB3A103JTE RS14DB3A220JTE RD14AB2E152JTS	FL-PR00F RS 100 J 2W FL-PR00F RS 220 J 1W FL-PR00F RS 10K J 1W FL-PR00F RS 22 J 1W FL-PR00F RD 1.5K J 1/4W		
R111 R114 R121 R122,123 R124-127		*	RD14AB2E4R7JTS RD14AB2E101JTS RS14DB3A681JTE RS14DB3A222JTE RS14DB3A392JTE	FL-PR00F RD 4.7 J 1/4W FL-PR00F RD 100 J 1/4W FL-PR00F RS 680 J 1W FL-PR00F RS 2.2K J 1W FL-PR00F RS 3.9K J 1W		
K1 S1 S2 S3	1C 1B 2C	*	S51-2078-05 S40-6027-05 S42-2141-05 S42-6018-05	MAGNETIC RELAY PUSH SWITCH (CARTRIDGE) MULTIPLE PUSH SWITCH (SP) MULTIPLE PUSH SWITCH (MON)		
D1 -4 D5 D5 D6 D7			S3V20 1SS131 1SS178 DSM1A1 1SS131	DIODE DIODE DIODE DIODE DIODE		
D7 D8 ,9 D8 ,9 D10 D10		*	1SS178 HZS20S(B2) RD20JS(B2) HZS2.7N(B2) RD2.7ES(B2)	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D11 ,12 IC1 IC2 Q1 ,2 Q5		*	DSM1A1 STK4893 UPC1237H 2SC1845(F,E) 2SD882(Q,P)	DIODE IC(2CH AF POWER AMP) IC(PROTECTION) TRANSISTOR TRANSISTOR		
Q6 Q7 ,8 Q7 ,8			2SB772(Q,P) 2SA733(A)(Q,P) 2SA999(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR		
TONE AMPLIFIER UNIT(X11-2261-00)						
D1 -8 C1 ,2 C3 -6 C7 ,8 C9 -12 C13 ,14 C15 -18 C19 -22 C23 -26 C27 ,28 C29 ,30 C51 ,52 C53 ,54 C55 R51 ,52	2B		B30-1012-05 CF92FV1H224J CC45FSL1H101J CE04KW1H010M CC45FSL1H101J CC45FSL1H150J CF92FV1H334J CE04KW1V100M CF92FV1H223J CK45FB1H561K CE04KW1H010M CE04KW1E101M CE04KW1E470M CF92FV1H224J RD14GB2E101JTS	LED(SLP-981C-50) MF 0.22UF J CERAMIC 100PF J ELECTRO 1.0UF 50WV CERAMIC 100PF J CERAMIC 15PF J MF 0.33UF J ELECTRO 10UF 35WV MF 0.022UF J CERAMIC 560PF K ELECTRO 1.0UF 50WV ELECTRO 100UF 25WV ELECTRO 47UF 25WV MF 0.22UF J FL-PR00F RD 100 J 1/4W		

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VR1 VR2 VR3 ,4	2B 2C 2B	* * *	R06-5153-05 R06-5152-05 R06-3052-05	POTENTIOMETER(200K B) BALANCE POTENTIOMETER(100K B) VOLUME POTENTIOMETER(10K B) TONE		
S1 S2 S3 ,4	2B 2B 2B,2C	* * *	S40-2351-05 S40-4074-05 S40-2351-05	PUSH SWITCH (SUBSONIC) PUSH SWITCH (CD DIRECT) PUSH SWITCH (LINE, ATT)		
D9 ,10 D9 ,10 IC1			HZS16N(B) RD16ES(B) UPC4570C	ZENER DIODE ZENER DIODE IC(OP AMP X2)		
PREAMPLIFIER UNIT(X85-1010-10)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8			CF92FV1H392J CF92FV1H113J CF92FV1H393J CED4HW1E100MEL	MF 3900PF J MF 0.011UF J MF 0.039UF J NP-ELEC 10UF 25WV		
R7 ,8 R9 ,10		* *	RN14BK2C6811FTS RN14BK2C8252FTS	RN 6.81K F 1/6W RN 82.5K F 1/6W		
IC1 Q5 -8 Q5 -8			NJM4560D-N 2SK170(BL) 2SK170(V)	IC(OP AMP X2) FET FET		

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SPECIFICATIONS

POWER OUTPUT

40 watts per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion.

Maximum continuous Power Output (DIN) 1 kHz at 4 ohms	55 W
Maximum continuous Power Output (DIN) 1 kHz at 8 ohms	44 W
Maximum continuous Power Output (IEC/NF) form 63 Hz to 12,500 Hz, 0.7%	
Total Harmonic Distortion at 8 ohms	43 W + 43 W
Total Harmonic Distortion	
(20 Hz-20,000 Hz, 8 ohms)	0.03% at 40 W
(1 kHz, 8 ohms)	0.003% at 40 W
Inter Modulation Distortion	0.003% at rated power into 8 ohms
Frequency Respose	1 Hz to 100 kHz/ +0 dB, -1 dB (IHF-'66)
Phono Frequency Response	RIAA Standardcurve ± 0.3 dB (20 Hz to 20 kHz)
Damping Factor	(1 kHz input 8 ohms) 50

Signal to Noise Ratio	(IHF-A)	(CR-301A)
PHONO (MM)	86 dB	81 dB
PHONO (MC)	68 dB	75 dB
TUNER/CD/AUX/TAPE	105 dB	82 dB

Input Sensitivity/Impedance	
PHONO (MM)	2.5 mV/47 k ohms
PHONO (MC)	0.2 mV/100 ohms
TUNER/CD/AUX/TAPE	150 mV/47 k ohms

Phono Maximum Input Level	
PHONO (MM)	200 mV, 0.03% T.H.D. at 1 kHz
PHONO (MC)	15 mV, 0.03% T.H.D. at 1 kHz

Output Level/Impedance	
TAPE REC	150 mV/220 ohms
REC OUT	150 mV/220 ohms

Cannels Separation (DIN) at 1,000 Hz	
PHONO (Terminated with 2.2 k ohms)	50 dB
AUX (Terminated with 47 k ohms + 250 pF)	40 dB

Tone Control	
TREBLE	± 10 dB at 10 kHz
BASS	± 10 dB at 100 Hz

Subsonic Filter	6 dB/oct. at 18 Hz
Transient Response Risetime	1.8 μ s (VR MAX.)

General

Power Requirements	120 V, 60 Hz...Canada Models
	220 V, 50 Hz...European Models
	240 V, 50 Hz...England Models

Power Consumption	130 watts at rated output power into 8 ohms watts at no signal
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A.C. Outlet	Switched $\times 2$ (100 W), Unswitched $\times 1$ (400 W)
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Dimensions	W 420 mm (16-9/16")
	H 113 mm (4-7/16")
	D 311 mm (12-1/4")

Weight (Net)	6.3 kg (13.86 lb)
(Gross)	7.0 kg (15.4 lb)

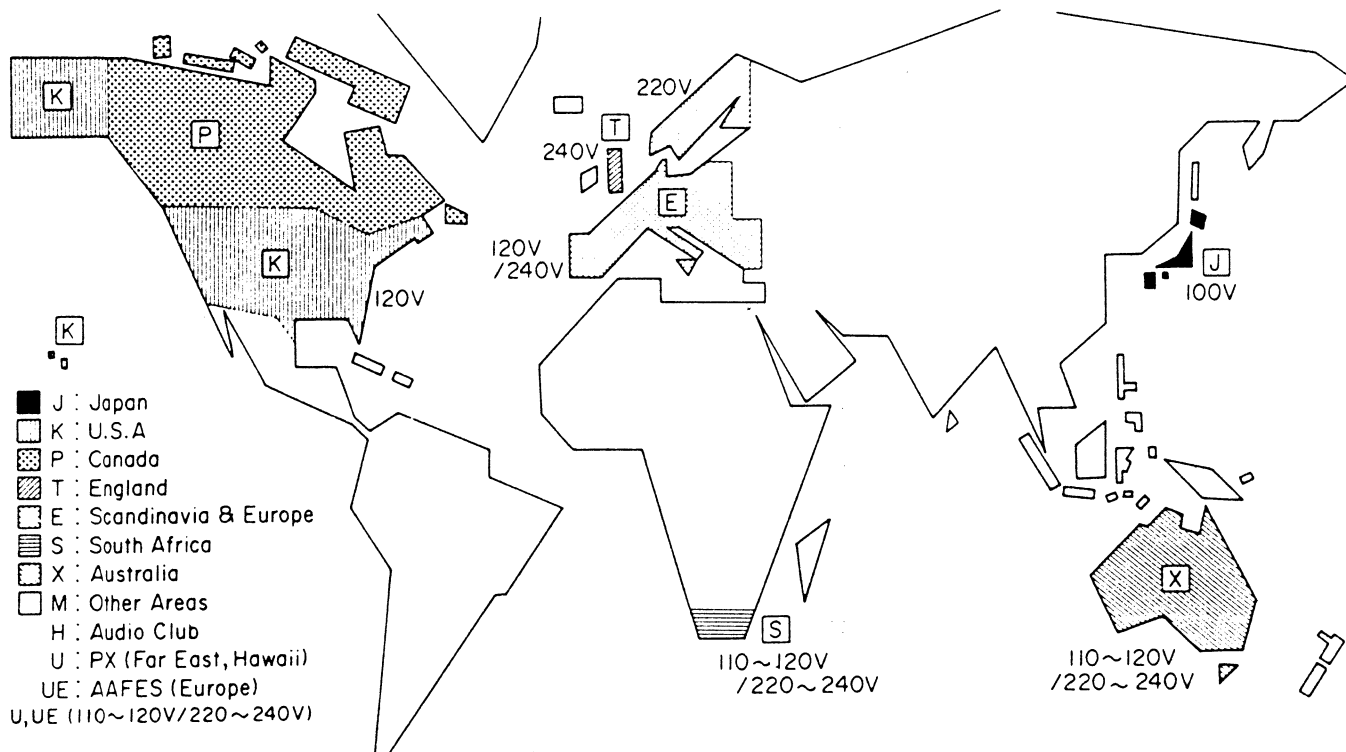
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

KA-550

WORLD MAP & AREA CODE



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the CANADA (P) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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